

428 Rec'd PTO 20 DEC 1999

FORM PTO-1390
(REV 11-98)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

IOLL-281

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

09/446471

INTERNATIONAL APPLICATION NO.
PCT/US98/12823 ✓INTERNATIONAL FILING DATE
19 June 1998 (19.06.98) ✓PRIORITY DATE CLAIMED
20 June 1997 (20.06.97) ✓TITLE OF INVENTION **Fluid Purification Devices and Methods Employing Deionization
Followed by Ionization Followed by Deionization** ✓

APPLICANT(S) FOR DO/EO/US

Li ZHANG ✓

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☐ This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ has been transmitted by the International Bureau.
 - c. ☒ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☒ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ have been transmitted by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11. to 16. below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A **FIRST** preliminary amendment.
☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
14. ☐ A substitute specification.
15. ☒ A change of power of attorney and/or address letter.
16. ☒ Other items or information: **Acknowledgement postcard
Letter of Transmittal**

001220 12/19/98

INTERNATIONAL APPLICATION
PCT/US98/12823

COLL-281

REGISTRATION NUMBER

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Li Zhang
U.S. National Phase of
Int'l Appln. No.: PCT/US98/12823
Int'l Filing Date: 19 June 1998 (19.06.98)
Priority Date: 20 June 1997 (20.06.97)
Docket Number: IOLL-281PC (56246)
Title: FLUID PURIFICATION DEVICES AND METHODS
EMPLOYING DEIONIZATION FOLLOWED BY
IONIZATION FOLLOWED BY DEIONIZATION

CERTIFICATE OF MAILING BY EXPRESS MAIL

"Express Mail" Mailing Label Number EK244405761US I hereby certify that this paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and is addressed to Box:Patent Application, Assistant Commissioner for Patents, Washington, DC 20231, Attn: RO/US.

12/20/99
Date of Deposit

Roberta L. Hahn
Roberta L. Hahn

BOX NEW APPLICATION

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

LETTER OF TRANSMITTAL

Enclosed herewith for filing in the above application are the following:

1. Transmittal Letter to the United States Designated/Elected office (DO/EO/US) Concerning a Filing Under 35 U.S.C. 371;
2. Preliminary Amendment;
3. Information Disclosure Statement; form PTO-1449, and copies of cited references;
4. Change of Attorney Address Notice;
4. Check for \$854.00; and
5. Acknowledgement postcard.

No additional costs are believed to be due in connection with the filing of this disclosure. However, please charge any necessary fees to our Deposit Account No. 501133.

Respectfully submitted,

Date: 12/20/99

Mark G. Lappin
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